

=> b hcap

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 FILE LAST UPDATED: 22 Feb 2006 (20060222/ED)

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=> d all hitstr l41 tot

L41 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:300991 HCAPLUS
 DN 138:279822
 ED Entered STN: 18 Apr 2003
 TI Preparation of cobalt-apoferritin complex nanoparticles for semiconductor nanostructure fabrication
 IN Yamashita, Ichiro
 PA Matsushita Electric Industrial Co., Ltd., Japan
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 IC ICM B82B-0003/00
 ICS H01L-0051/00; H01L-0021/8247; H01L-0029/788; H01L-0027/115;
 C07K-0014/47; C07K-0001/02
 CC 76-3 (Electric Phenomena)
 Section cross-reference(s): 7
 FAN.CNT 1

PATENT-NO.	KIND	DATE	APPLICATION NO.	DATE
WO2003031322	A1	20030417	2002WO-JP10127	20020927 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP2003113198	A2	20030418	2001JP-0305273	20011001 <--
JP---3588602	B2	20041117		
EP---1433743	A1	20040630	2002EP-0772954	20020927 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
US2004158047	A1	20040812	2003US-0644774	20030821 <--
PRAI 2001JP-0305273	A	20011001	<--	
2002WO-JP10127	W	20020927	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003031322	ICM	B82B-0003/00
	ICS	H01L-0051/00; H01L-0021/8247; H01L-0029/788; H01L-0027/115; C07K-0014/47; C07K-0001/02
	IPCI	B82B0003-00 [ICM,7]; H01L0051-00 [ICS,7]; H01L0021-8247 [ICS,7]; H01L0029-788 [ICS,7]; H01L0027-115 [ICS,7]; C07K0014-47 [ICS,7]; C07K0001-02 [ICS,7]
	IPCR	C07K0014-435 [I,C]; C07K0014-47 [I,A]
	ECLA	C07K014/47 <--
JP2003113198	IPCI	C07K0014-435 [ICM,7]; C07K0001-02 [ICS,7]; H01L0021-8247 [ICS,7]; H01L0027-115 [ICS,7]; H01L0029-06 [ICS,7]; H01L0029-788 [ICS,7]; H01L0029-792 [ICS,7] <--
EP---1433743	IPCI	B82B0003-00 [ICM,7]; H01L0051-00 [ICS,7]; H01L0021-8247 [ICS,7]; H01L0029-788 [ICS,7]; H01L0027-115 [ICS,7]; C07K0014-47 [ICS,7]; C07K0001-02 [ICS,7]
	ECLA	C07K014/47 <--
US2004158047	IPCI	C07K0014-47 [ICM,7]
	IPCR	C07K0014-435 [I,C]; C07K0014-47 [I,A]
	NCL	530/400.000
	ECLA	C07K014/47 <--

AB A method for preparing a cobalt-apoferritin complex which comprises a first step of mixing a HEPES buffer solution, an apoferritin solution and a Co²⁺ ion solution in this order, to prepare a reaction solution, and a second step of adding an oxidizing agent (for example, H₂O₂) to the reaction solution, to thereby introduce cobalt hydroxide (CoO(OH)) into the holding sector (4) of apoferritin and form a cobalt-apoferritin complex. The above operations for forming a cobalt-apoferritin complex are carried out while agitating with a stirrer at room temperature. The method allows the preparation of a cobalt-apoferritin complex including fine cobalt particles having a uniform particle diameter.

ST cobalt apoferritin complex nanoparticle semiconductor nanostructure

IT Ferritins

RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(apoferritins, complex with cobalt; preparation of cobalt-apoferritin complex nanoparticle for semiconductor nanostructure fabrication)

IT Quantum dot devices

Semiconductor memory devices

Semiconductor nanostructures

(preparation of cobalt-apoferritin complex nanoparticle for semiconductor nanostructure fabrication)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Douglas, T; Inorganic Chemistry 2000, V39(8), P1828 HCAPLUS
- (2) Meldrum, F; Science 1992, V257, P522 HCAPLUS
- (3) Monsanto Co; JP-04-507255 A 1991
- (4) Monsanto Co; EP----487615 A 1991 HCAPLUS
- (5) Monsanto Co; US---5304382 A1 1991 HCAPLUS
- (6) Monsanto Co; US---5358722 A1 1991 HCAPLUS
- (7) Monsanto Co; WO---9102704 A1 1991 HCAPLUS
- (8) Yang, X; Biochemical Journal 1999, V338(3), P615 HCAPLUS

L41 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1980:68975 HCAPLUS

DN 92:68975

ED Entered STN: 12 May 1984

TI Formation of cobalt complexes by oxidation with potassium peroxymonosulfate in spectrophotometric determination of cobalt

AU Chang, Fu Chung; Cheng, K. L.

CS Dep. Chem., Univ. Missouri, Kansas City, MO, 64110, USA

SO Mikrochimica Acta (1979), 2(3-4), 219-28

CODEN: MIACAQ; ISSN: 0026-3672

DT Journal
 LA English
 CC 79-6 (Inorganic Analytical Chemistry)
 AB The oxidation of cobaltous complexes of aminopolycarboxylic acids to their corresponding cobaltic complexes with K peroxymonosulfate was studied for the spectrophotometric determination of 10-100 ppm Co. The color reactions for Co are highly selective. Their molar absorptivities (200-300) and reduction potentials (about 0.45 V) were determined. The reactions are similar to that with H₂O₂ as an oxidant reported previously, but the peroxymonosulfate method has advantages over H₂O₂ because of no disturbance of gas bubbles, better stable color reactions, and elimination of Fe³⁺ interference. The use of peroxymonosulfate as an oxidant for Co complexes of other ligands is also discussed.

ST cobalt detn spectrophotometry; potassium peroxymonosulfate oxidant cobalt detn; aminopolycarboxylic acid reagent cobalt detn; redn potential cobalt aminopolycarboxylate

IT Ultraviolet and visible spectra
 (of cobalt complexes with aminopolycarboxylic acids)

IT Amino acids, compounds
 RL: ANST (Analytical study)
 (polycarboxylic, cobalt complexes, reduction potentials and spectra of)

IT Electric potential
 (reduction, of cobalt complexes with aminopolycarboxylic acids)

IT 10058-23-8
 RL: ANST (Analytical study)
 (as oxidizing agent, in determination of cobalt by spectrophotometry)

IT 7440-48-4, analysis
 RL: ANT (Analyte); ANST (Analytical study)
 (determination of, aminopolycarboxylic acids and potassium peroxymonosulfate in spectrophotometric)

IT 67-43-6 139-13-9 150-39-0 869-52-3
 60-00-4, uses and miscellaneous 67-42-5
 RL: ANST (Analytical study)
 (in determination of cobalt by spectrophotometry)

IT 60-00-4D, cobalt complex 67-42-5D,
 cobalt complex 67-43-6D, cobalt
 complex 139-13-9D, cobalt complex
 150-39-0D, cobalt complex 869-52-3D,
 cobalt complex
 RL: PRP (Properties)
 (reduction potential and spectrum of)

IT 7440-48-4D, aminopolycarboxylic acid complexes
 RL: PRP (Properties)
 (reduction potentials and spectra of)

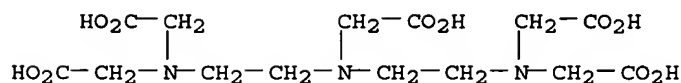
IT 7440-48-4, analysis
 RL: ANT (Analyte); ANST (Analytical study)
 (determination of, aminopolycarboxylic acids and potassium peroxymonosulfate in spectrophotometric)

RN 7440-48-4 HCAPLUS
 CN Cobalt (8CI, 9CI) (CA INDEX NAME)

Co

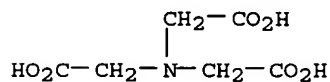
IT 67-43-6 139-13-9 150-39-0 869-52-3
 60-00-4, uses and miscellaneous 67-42-5
 RL: ANST (Analytical study)
 (in determination of cobalt by spectrophotometry)

RN 67-43-6 HCAPLUS
 CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

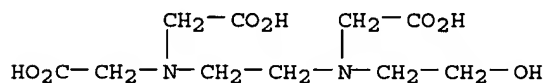


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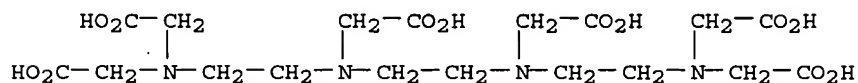
CN Glycine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)



RN 150-39-0 HCAPLUS

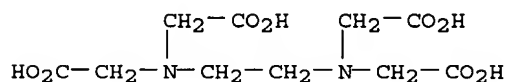
CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)- (9CI)
(CA INDEX NAME)

RN 869-52-3 HCAPLUS

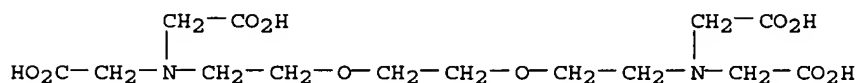
CN 3,6,9,12-Tetraazatetradecanedioic acid, 3,6,9,12-tetrakis(carboxymethyl)-
(9CI) (CA INDEX NAME)

RN 60-00-4 HCAPLUS

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



RN 67-42-5 HCAPLUS

CN 6,9-Dioxa-3,12-diazatetradecanedioic acid, 3,12-bis(carboxymethyl)- (9CI)
(CA INDEX NAME)

IT 60-00-4D, cobalt complex 67-42-5D,

cobalt complex 67-43-6D, cobalt

complex 139-13-9D, cobalt complex

150-39-0D, cobalt complex 869-52-3D,

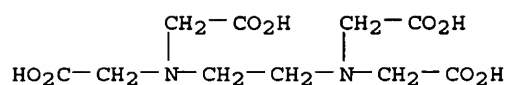
cobalt complex

RL: PRP (Properties)

(reduction potential and spectrum of)

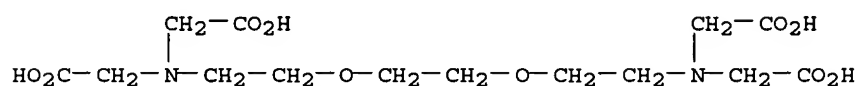
RN 60-00-4 HCAPLUS

CN Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)- (9CI) (CA INDEX NAME)



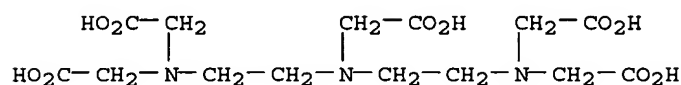
RN 67-42-5 HCAPLUS

CN 6,9-Dioxa-3,12-diazatetradecanedioic acid, 3,12-bis(carboxymethyl)- (9CI)
(CA INDEX NAME)



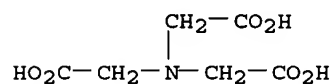
RN 67-43-6 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



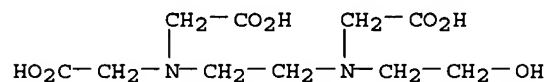
RN 139-13-9 HCAPLUS

CN Glycine, N,N-bis(carboxymethyl)- (9CI) (CA INDEX NAME)



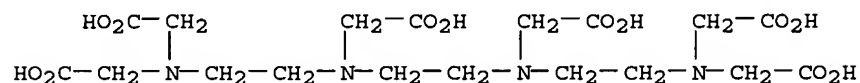
RN 150-39-0 HCAPLUS

CN Glycine, N-[2-[bis(carboxymethyl)amino]ethyl]-N-(2-hydroxyethyl)- (9CI)
(CA INDEX NAME)



RN 869-52-3 HCAPLUS

CN 3,6,9,12-Tetraazatetradecanedioic acid, 3,6,9,12-tetrakis(carboxymethyl)-
(9CI) (CA INDEX NAME)



IT 7440-48-4D, aminopolycarboxylic acid complexes

RL: PRP (Properties)

(reduction potentials and spectra of)

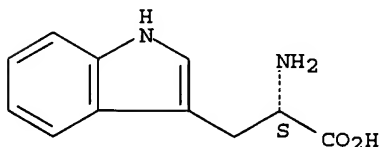
RN 7440-48-4 HCAPLUS

CN Cobalt (8CI, 9CI) (CA INDEX NAME)

Co

L41 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1961:47589 HCAPLUS
 DN 55:47589
 OREF 55:9142g-h
 ED Entered STN: 22 Apr 2001
 TI Cobalt bis(tryptophan)
 AU Brigando, Jeanne; Hidalgo, Antonio
 CS Sorbonne, Paris
 SO Compt. rend. (1960), 251, 2338-40
 DT Journal
 LA Unavailable
 CC 6 (Inorganic Chemistry)
 AB N NaOH was added to an aqueous equimol. (10-2M) mixture of CoCl₂ and tryptophan (tryp). The precipitate was H₂O-insol. and weakly soluble in alc. Polarographic investigations showed bivalent Co. This proves the formation of an internal complex where the tryp mols. are attached to the Co by the free electron pairs of their N atoms. The 2 Co charges are compensated by the carboxylic groups of tryp. After adding H₂O₂, a precipitate resulted. Chemical composition had not changed. Co was found to be trivalent by polarography. Conductometric titrations indicated the absence of free OH groups. The absorption spectrum lay between the spectra of CoII(tryp)₂ and CoIII(tryp)₃. All these facts impose the formula CoIII(tryp)₂, where the third pos. Co charge is neutralized by the ionization of the NH group of the pyrrole nucleus of 1 tryp mol.
 IT Infrared spectra
 Ultraviolet and visible, spectra
 (of cobalt complexes, with tryptophan)
 IT Cobalt, compound with tryptophan
 IT 73-22-3, Tryptophan
 (cobalt complexes)
 IT 73-22-3, Tryptophan
 (cobalt complexes)
 RN 73-22-3 HCAPLUS
 CN L-Tryptophan (9CI) (CA INDEX NAME)

Absolute stereochemistry.

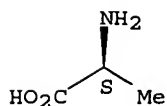


L41 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1959:104367 HCAPLUS
 DN 53:104367
 OREF 53:18722f-i, 18723a-b
 ED Entered STN: 22 Apr 2001
 TI New syntheses in the chemistry of the cobalt(III) complexes using hydrogen peroxide as the oxidizing agent
 AU Spacu, P.; Gheorghiu, Constanta; Brezeanu, Marieta; Popescu, Sanda
 SO Analele univ. "C. I. Parhon," Bucuresti, Ser. stiint. nat. (1958), No. 19, 43-54
 DT Journal
 LA Unavailable
 CC 6 (Inorganic Chemistry)
 AB The general synthesis method consists of treating at room temperature or cold a solution of the Co(II) salt with the resp. base (NH₃, ethylenediamine, propylenediamine, 1,10-phenanthroline, 2,2'-bipyridine), or with dimethylglyoxime, and with amino acids. The mixture is then treated with 30% H₂O₂. The hexammines: [Co(NH₃)₆]₃X₃ (X = Cl, I, NO₃), [Co(en)₃]₃Cl₃·3H₂O, [Co(pn)₃]₃X₃·3H₂O (X = Cl, I, NO₃), were prepared. The addition of small amts. of activated charcoal to the reaction between the

Co(II) salt with the base resulted in syntheses of high purity hexammines, acidopentammines $[\text{Co}(\text{NH}_3)_5\text{NO}_3](\text{NO}_3)_2$, diacidotetrammines $[\text{Co}(\text{NH}_3)_4\text{CO}_3]\text{X}(\text{X} = \text{Cl}, \text{SO}_4)$, $[\text{Co}(\text{NH}_3)_4(\text{NO}_2)_2]\text{NO}_3$, $[\text{Co}(\text{en})_2\text{Cl}_2]\text{Cl}$, $[\text{Co}(1,10\text{-phenanthr})_2\text{Cl}_2]\text{Cl} \cdot 4\text{H}_2\text{O}$, $[\text{Co}(\text{bip})_2\text{Cl}_2]\text{Cl} \cdot 7\text{H}_2\text{O}$ (bip = 2,2'-bipyridine), tetraacidodiammines $\text{NH}_4[\text{Co}(\text{NH}_3)_2(\text{NO}_2)_4]$, as well as $\text{K}_3[\text{Co}(\text{C}_2\text{O}_4)_3] \cdot 3\text{H}_2\text{O}$, $\text{Co}(\text{DH})_3$ (DH2 = dimethylglyoxime), $\text{Co}[\text{CH}_3\text{CH}(\text{NH}_2)\text{COO}]_3$, $\text{Co}[\text{CH}_3\text{CH}(\text{NH}_2)\text{COO}]_3 \cdot 1/2\text{H}_2\text{O}$, $\text{Co}[(\text{CH}_3)_2\text{CHCH}(\text{NH}_2)\text{COO}]_3$. It is noted that the last compound is a first preparation of Co(III) with valine in the above form. The alanine complex is obtained in two forms: anhydrous (rose-violet, slightly soluble in H_2O), and hemihydrate (red-violet, and very soluble in H_2O). Two valine complexes of the formula $[\text{Co}(\text{val})_3]$ are obtained, both anhydrous, one pink and only slightly soluble in H_2O , the other violet and more soluble in H_2O . The preparation of $\text{Co}[(\text{CH}_3)_2\text{CHCH}(\text{NH}_2)\text{COO}]_3 \cdot \text{Co(II) acetate tetrahydrate (1 g.)}$ is dissolved in 20 ml. H_2O . DL-Valine (1.5 g. in 22 ml. H_2O) is added. The mixture is oxidized with 30% H_2O_2 (4 ml.) and evaporated to dryness. The residue is taken up with acetone, and the pink-violet solid is filtered and taken up with water. It is filtered and washed until the washings are nearly colorless. A pink solid is left on the filter. It is washed with EtOH. The filtrate is evaporated to separation of a violet solid. It is filtered and washed with EtOH. Both solids correspond to the formula given above. In the preparation of several of the mentioned compds. the formation of intermediate polynuclear complexes was observed. On heating, or under the action of concentrated acid, the mononuclear compds. formed.

- IT Amino acids
(cobalt complexes, preparation by oxidation of Co salts with H_2O_2)
- IT Ammines or Ammoniates
(cobalt, preparation by oxidation of Co(II) salts with H_2O_2)
- IT Chlorides
(complexes, with $[\text{Co}(\text{NH}_3)_6]^{+++}$ ion)
- IT 66-71-7, 1,10-Phenanthroline
(cobalt complexes, preparation by oxidation of Co(II) salts)
- IT 95-45-4, Glyoxime, dimethyl- 107-15-3, Ethylenediamine 366-18-7, 2,2'-Bipyridine
(cobalt complexes, preparation by oxidation of Co(II) salts with H_2O_2)
- IT 56-41-7, Alanine
(cobalt complexes, preparation by oxidation of Co (OAc)₂ and alanine)
- IT 7722-84-1, Hydrogen peroxide
(cobalt(II) salt oxidation by, in preparation of Co(III) complexes)
- IT 72-18-4, Valine
(cobalt(III) complexes, preparation by H_2O_2 oxidation of Co(OAc)₂ solns. containing valine)
- IT 7440-48-4, Cobalt
(complexes, preparation by oxidation of Co(II) salts with H_2O_2)
- IT 78-90-0, 1,2-Propanediamine, cobalt(III) complex
(preparation by oxidation of Co(II) salts with H_2O_2)
- IT 14239-07-7, Potassium oxalatocobaltate(III), $\text{K}_3\text{Co}(\text{C}_2\text{O}_4)_3$
(preparation of, by H_2O_2 oxidation of CoCO_3 solution containing $\text{K}_2\text{C}_2\text{O}_4$)
- IT 7440-48-4, Cobalt
(salts, oxidation of Co(II), by H_2O_2 in preparation of Co(III) complexes)
- IT 56-41-7, Alanine
(cobalt complexes, preparation by oxidation of Co (OAc)₂ and alanine)
- RN 56-41-7 HCAPLUS
- CN L-Alanine (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

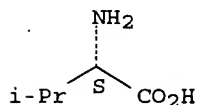


IT 7722-84-1, Hydrogen peroxide
 (cobalt(II) salt oxidation by, in preparation of Co(III) complexes)
 RN 7722-84-1 HCAPLUS
 CN Hydrogen peroxide (H2O2) (9CI) (CA INDEX NAME)

HO—OH

IT 72-18-4, Valine
 (cobalt(III) complexes, preparation by H2O2
 oxidation of Co(OAc)2 solns. containing valine)
 RN 72-18-4 HCAPLUS
 CN L-Valine (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 7440-48-4, Cobalt
 (complexes, preparation by oxidation of Co(II) salts with
 H2O2)
 RN 7440-48-4 HCAPLUS
 CN Cobalt (8CI, 9CI) (CA INDEX NAME)

Co

(salts, oxidn. of Co(II), by H2O2 in prepn. of Co(III)
 complexes

L41 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1957:89720 HCAPLUS

DN 51:89720

OREF 51:16185f-g

ED Entered STN: 22 Apr 2001

TI Complex formation of cobalt with the simple amino acids

AU Avvakumov, V. I.; Dobren'kov, G. A.

SO Trudy Kazan. Khim.-Tekhnol. Inst. im. S. M. Kirova (1955)
 Volume Date 1954-1955, (No. 19-20), 229-35

DT Journal

LA Unavailable

CC 6 (Inorganic Chemistry)

AB Co(OH)2 and glycine form an unstable complex compound of CoII. By treating
 CoCl2 with glycine and H2O2, or by chemical and electrochem. solution
 of metallic Co in an alkaline solution of glycine (0.2M solution of glycine in 4%
 NaOH) (c.d. = 1.5 amp./sq. dm.), a stable complex of CoIII was formed.
 Absorption spectra are given.

IT Spectra

(of cobalt complexes with glycine)

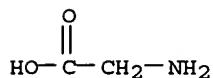
IT Cobalt, compound with glycine

IT 56-40-6, Glycine

(cobalt complexes)

IT 56-40-6, Glycine

(cobalt complexes)
 RN 56-40-6 HCAPLUS
 CN Glycine (8CI, 9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 08:11:22 ON 23 FEB 2006)

FILE 'HCAPLUS' ENTERED AT 08:11:45 ON 23 FEB 2006

L1 1 SEA ABB=ON PLU=ON US2004158047/PN OR (US2003-644774# OR
 WO2002-JP10127# OR JP2001-305273#)/AP,PRN
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 L2 305 SEA ABB=ON PLU=ON ("YAMASHITA I"/AU OR "YAMASHITA ICHERO"/AU
 OR "YAMASHITA ICHIRO"/AU OR "YAMASHITA ICHIROU"/AU OR "YAMASHIT
 A ICHRO"/AU)
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 L3 85209 SEA ABB=ON PLU=ON MATSUSHITA/CS,PA

FILE 'REGISTRY' ENTERED AT 08:55:31 ON 23 FEB 2006

E COBALT/CN
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 L5 9 SEA ABB=ON PLU=ON COHO2
 L6 8 SEA ABB=ON PLU=ON L5 NOT TIS/CI

FILE 'HCAPLUS' ENTERED AT 09:00:12 ON 23 FEB 2006

L7 176542 SEA ABB=ON PLU=ON L4
 L8 QUE ABB=ON PLU=ON COBALT OR ACO4 ACO 4 OR CI77320 OR (CI OR
 C I) (1W) (77320 OR 77320 OR 77 320) OR CI77 320 OR CO OR
 N354D? OR N354D? OR R401 OR R 401
 E COBALT/CT
 E E3+ALL
 L9 176570 SEA ABB=ON PLU=ON COBALT+NT/CT
 E COBALT/CT
 E E24+ALL
 E AMINO ACIDS/CT
 E E3+ALL
 L10 3659 SEA ABB=ON PLU=ON "AMINO ACIDS"+OLD,NT/CT (L) (L7 OR L8)
 L11 458 SEA ABB=ON PLU=ON L6
 L12 8600 SEA ABB=ON PLU=ON COBALT (1W) (HYDROXIDE(1W)OXIDE OR HYDROXIDE
 OR OXYHYDROXIDE) OR HETEROGENITE OR COBALTATE OR BOODTITE OR
 STAINIERITE
 L13 533 SEA ABB=ON PLU=ON COO (1W)OH OR COOH OR CO (1W) (OH OR OD)
 (1W)O
 D KWIC
 E FERRITINS/CT
 E E3+ALL
 L14 9179 SEA ABB=ON PLU=ON FERRITINS+OLD,NT/CT
 L15 301 SEA ABB=ON PLU=ON FERRITINS+OLD,NT/CT (L)APO
 E COBALT/CT
 E AMINO ACIDS/CT
 E AMINO ACIDS/CT
 L16 30 SEA ABB=ON PLU=ON "AMINO ACIDS"+OLD,NT/CT (L) (L11 OR L12 OR
 L13)
 L17 3629 SEA ABB=ON PLU=ON PROTEIN#/CW (L) (L7 OR L8 OR L11 OR L12 OR
 L13)
 L18 26 SEA ABB=ON PLU=ON (L14 OR L15) (L) (L7 OR L8 OR L11 OR L12
 OR L13)
 E AMINO ACIDS/CT

L19 7016 SEA ABB=ON PLU=ON ("AMINO ACIDS"+OLD,NT/CT OR PROTEIN#/CW)AND
L9
L20 4823 SEA ABB=ON PLU=ON (L10 OR L16 OR L17 OR L18 OR L19) AND
COMPLEX?
L21 1664 SEA ABB=ON PLU=ON (L10 OR L16 OR L17 OR L18) (L)COMPLEX##
L22 2620 SEA ABB=ON PLU=ON L19 AND COMPLEX##

FILE 'REGISTRY' ENTERED AT 09:34:36 ON 23 FEB 2006

E HYDROGEN PEROXIDE
E HYDROGEN PEROXIDE/CN
L23 4 SEA ABB=ON PLU=ON ("HYDROGEN PEROXIDE"/CN OR "HYDROGEN
PEROXIDE (D218O2)"/CN OR "HYDROGEN PEROXIDE (D2O18O)"/CN OR
"HYDROGEN PEROXIDE (D2O2)"/CN)

FILE 'HCAPLUS' ENTERED AT 09:36:09 ON 23 FEB 2006

L24 92231 SEA ABB=ON PLU=ON L23
L25 189523 SEA ABB=ON PLU=ON H2O2 OR HYDROGEN (1W) (PEROXIDE OR DIOXIDE
OR DI OXIDE) OR ALBONE OR BAQUASHOCK OR ASEPTICER OR ANTI KEIM
OR ANTI KEIM OR CIX OR CRESTAL OR CRYSTACIDE OR DENTASEPT OR
DESLIME OR HIOXYL OR HIPOX OR HYBRITE
L26 3011 SEA ABB=ON PLU=ON INHIBINE OR LENSAN OR METROKUR# OR
MIRASEPT OR NSC19982 OR NSC (W) (19892 OR 19 892) OR ODOSAT OR
OPAESCENCE OR OXIGENAL OR OXYDOL# OR OXYFULL OR OXYSEPT OR
PEGASYL OR PERHYDROL OR PERONE OR PEROXAAN OR PEROXCLEAN OR
QUASAR BRITE
L27 75 SEA ABB=ON PLU=ON SUPEROXOL OR #XTRA WHITE OR T STUFF
L28 55 SEA ABB=ON PLU=ON ?DEUTERIUM (1W) PEROXIDE

FILE 'HCAPLUS' ENTERED AT 09:41:43 ON 23 FEB 2006

E HYDROGEN PEROXIDE/CT
E E3+ALL
L29 92186 SEA ABB=ON PLU=ON "HYDROGEN PEROXIDE"/CT
E E11
L30 12933 SEA ABB=ON PLU=ON ("OXIDIZING AGENTS"/CT OR "OXIDIZING
AGENTS (L) PHOTOCHEM."/CT)
E E3+ALL
L31 105616 SEA ABB=ON PLU=ON "OXIDIZING AGENTS"+RTCS/CT
L32 3 SEA ABB=ON PLU=ON (L21 OR L22) AND (L1 OR L2 OR L3)
L33 1 SEA ABB=ON PLU=ON ("138:279822"/AN OR "2003:300991"/AN) AND
L32
L34 75 SEA ABB=ON PLU=ON (L21 OR L22) AND (L30 OR L31).
L35 131 SEA ABB=ON PLU=ON (L21 OR L22) (L) (L24 OR L25 OR L26 OR L27
OR L28 OR L29)
L36 QUE ABB=ON PLU=ON PY<=2001 OR AY<=2001 OR PRY<=2001 OR
PD<=20011001 OR AD<=20011001 OR PRD<=20011001
L37 114 SEA ABB=ON PLU=ON (L34 OR L35) AND L36
L38 1 SEA ABB=ON PLU=ON L37 AND (L1 OR L2 OR L3)
L39 113 SEA ABB=ON PLU=ON L37 NOT L38
SEL AN 50 94 96 100 L39
L40 4 SEA ABB=ON PLU=ON ("1957:89720"/AN OR "1959:104367"/AN OR
"1961:47589"/AN OR "1980:68975"/AN OR "51:89720"/AN OR
"53:104367"/AN OR "55:47589"/AN OR "92:68975"/AN) AND L39
L41 5 SEA ABB=ON PLU=ON (L33 OR L38 OR L40)

FILE 'REGISTRY' ENTERED AT 10:20:56 ON 23 FEB 2006

L42 6 SEA ABB=ON PLU=ON (7440-48-4/BI OR 56-40-6/BI OR 56-41-7/BI
OR 72-18-4/BI OR 73-22-3/BI OR 7722-84-1/BI)

FILE 'BIOSIS' ENTERED AT 10:46:27 ON 23 FEB 2006

L43 217624 SEA ABB=ON PLU=ON (L7 OR L8 OR L11 OR L12 OR L13)
L44 1771857 SEA ABB=ON PLU=ON PROTEIN# OR APOFERRITIN? OR APO (L)FERRITIN
L45 59929 SEA ABB=ON PLU=ON L43 AND L44
L46 11731 SEA ABB=ON PLU=ON L45 AND COMPLEX?
L47 236 SEA ABB=ON PLU=ON L46 AND ("CO2+" OR CO (1W)II)
L48 10 SEA ABB=ON PLU=ON L47 AND (L24 OR L25 OR L26 OR L27 OR L28)

L49 1 SEA ABB=ON PLU=ON OXIDIZING (1W)AGENT# AND L47
 L50 10 SEA ABB=ON PLU=ON (L48 OR L49)

FILE 'EMBASE' ENTERED AT 10:50:14 ON 23 FEB 2006

L51 727185 SEA ABB=ON PLU=ON (L7 OR L8 OR L11 OR L12 OR L13)
 E COBALT/CT
 E E3+ALL
 L52 11025 SEA ABB=ON PLU=ON COBALT/CT
 E APOFERRITIN/CT
 E E3+ALL
 L53 225 SEA ABB=ON PLU=ON APOFERRITIN/CT
 E PROTEIN/CT
 E E3+ALL
 L54 92391 SEA ABB=ON PLU=ON PROTEIN/CT
 E AMINO ACID/CT
 E E3+ALL
 L55 497420 SEA ABB=ON PLU=ON "AMINO ACID"+NT/CT
 L56 41917 SEA ABB=ON PLU=ON (L51 OR L52) AND (L53 OR L54 OR L55)
 L57 3833 SEA ABB=ON PLU=ON L56 AND COMPLEX?
 L58 34784 SEA ABB=ON PLU=ON (L24 OR L25 OR L26 OR L27 OR L28)
 E OXIDIZING/CT
 E E4+ALL
 L59 45483 SEA ABB=ON PLU=ON "OXIDIZING AGENT"+NT/CT
 L60 76 SEA ABB=ON PLU=ON L57 AND (L58 OR L59)
 L61 26 SEA ABB=ON PLU=ON L60 AND PY<=2001

FILE 'MEDLINE' ENTERED AT 10:54:53 ON 23 FEB 2006

L62 1258422 SEA ABB=ON PLU=ON (L7 OR L8 OR L11 OR L12 OR L13)
 E COBALT/CT
 E E3+ALL
 L63 9473 SEA ABB=ON PLU=ON COBALT/CT
 E COBALT/CT
 E E9
 E E3+ALL
 L64 4764 SEA ABB=ON PLU=ON "COBALT ISOTOPES"/CT
 E APOFERRITIN/CT
 E E3+ALL
 L65 321 SEA ABB=ON PLU=ON APOFERRITIN/CT
 L66 119515 SEA ABB=ON PLU=ON PROTEINS/CT
 L67 10311 SEA ABB=ON PLU=ON (L62 OR L63) AND (L64 OR L65 OR L66)
 L68 1055 SEA ABB=ON PLU=ON L67 AND COMPLEX?
 L69 38940 SEA ABB=ON PLU=ON (L24 OR L25 OR L26 OR L27 OR L28)
 E HYDROGEN PEROXIDE/CT
 E E3+ALL
 L70 23413 SEA ABB=ON PLU=ON "HYDROGEN PEROXIDE"/CT
 E OXIDIZING AGENT/CT
 E E4+ALL
 E E2
 E E3+ALL
 L71 66772 SEA ABB=ON PLU=ON OXIDANTS+NT/CT
 L72 9 SEA ABB=ON PLU=ON L68 AND (L69 OR L70 OR L71)

FILE 'WPIX' ENTERED AT 12:13:58 ON 23 FEB 2006

L73 126306 SEA ABB=ON PLU=ON (B04-B04N? OR C04-B04N? OR B04-B04A OR
 B04-B04A4 OR B04-B04A5 OR B04-B04A6 OR C04-B04A OR C04-B04A4
 OR C04-B04A5 OR C04-B04A6)/MC OR V9?/M0,M1,M2,M3,M4,M5,M6 OR
 (C07K OR A61K038)/IPC
 L74 37783 SEA ABB=ON PLU=ON E35-V/MC OR A427/M0,M1,M2,M3,M4,M5,M6 OR
 C01G051/IPC
 L75 17660 SEA ABB=ON PLU=ON D09-A01A/MC OR Q507/M0,M1,M2,M3,M4,M5,M6
 L76 22452 SEA ABB=ON PLU=ON E31-E01/MC OR (K910 OR K920 OR K930)/M0,M1,
 M2,M3,M4,M5,M6 OR C01B015/IPC
 E HYDROGEN PEROXIDE/CN
 L77 1 SEA ABB=ON PLU=ON "HYDROGEN PEROXIDE"/CN
 SEL DCSE
 EDIT /DCSE /DCRE

L78 4512 SEA ABB=ON PLU=ON 209-0-0-0/DCRE
SEL SDCN L77
EDIT /SDCN /DCN
L79 8609 SEA ABB=ON PLU=ON R01732/DCN
L80 17912 SEA ABB=ON PLU=ON 1732/DRN
E YAMASHITA I/AU
L81 97 SEA ABB=ON PLU=ON "YAMASHITA I"/AU
E ICHIRO Y/AU
L82 3 SEA ABB=ON PLU=ON "ICHIRO Y"/AU
L83 1 SEA ABB=ON PLU=ON US2004158047/PN OR (US2003-644774# OR
WO2002-JP10127# OR JP2001-305273#)/AP, PRN
L84 337942 SEA ABB=ON PLU=ON MATSUSHITA/PA, CS OR MATU/PACO
L85 99 SEA ABB=ON PLU=ON L73 AND (L81 OR L82 OR L83 OR L84)
L86 904 SEA ABB=ON PLU=ON L73 AND L74
L87 319 SEA ABB=ON PLU=ON L86 AND COMPLEX?/BIX
L88 1 SEA ABB=ON PLU=ON L87 AND L85
L89 318 SEA ABB=ON PLU=ON L87 NOT L88
L90 17 SEA ABB=ON PLU=ON L89 AND (L75 OR L76 OR L78 OR L79 OR L80)

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